

# Comparisons of Job Characteristics

**Focus Occupation:** [Biological Scientists, All Other \(19-1029\)](#)

**Associated Occupation:** [Biological Technicians \(19-4021\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 95

**Focus Occupation:** Biological Scientists, All Other (19-1029)

**Associated Occupation:** Biological Technicians (19-4021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Biology	3.7	18.9	24.4	>> Current knowledge level is likely more than sufficient
Chemistry	4.8	13.5	16.4	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 87

**Focus Occupation:** Biological Scientists, All Other (19-1029)

**Associated Occupation:** Biological Technicians (19-4021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Reading Comprehension	10.7	14.1	18.5	>> Skill level is likely more than sufficient
Science	4.5	11.2	16.1	>> Skill level is likely more than sufficient
Mathematics	6.2	9.4	12.6	>> Skill level is likely more than sufficient
Troubleshooting	4.5	7.9	3.4	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation:** Biological Scientists, All Other (19-1029)

**Associated Occupation:** Biological Technicians (19-4021)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	13.9	13.9	0	Current ability level may be sufficient
Information Ordering	9.9	12.3	13.0	0	Current ability level may be sufficient
Selective Attention	8.7	11.8	9.6	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.5	13.2	>	Current ability level is likely sufficient
Mathematical Reasoning	6.3	10.1	13.3	>>	Current ability level is likely more than sufficient
Flexibility of Closure	7.8	10.0	11.4	>	Current ability level is likely sufficient
Perceptual Speed	7.4	9.4	8.5	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.3	7.6	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

There are no common work activities.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 84

**Focus Occupation: Biological Scientists, All Other (19-1029)**  
**Associated Occupation: Biological Technicians (19-4021)**

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12
Business function specific software	1
Chemical evaluation instruments and supplies	10
Chromatographic measuring instruments and accessories	16
Clinical and diagnostic analyzers and accessories and supplies	18
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrochemical measuring instruments and accessories	9
General laboratory glassware and plasticware and supplies	13
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Laboratory baths	24
Laboratory centrifuges and accessories	13
Laboratory cooling equipment	25
Laboratory electrophoresis and blotting system and supplies	26
Laboratory enclosures and accessories	17
Laboratory heating and drying equipment	13
Laboratory incubating equipment	20
Laboratory mixing and stirring and shaking equipment and supplies	19
Laboratory ovens and accessories	15

Laboratory water purification equipment and supplies	29
Libraries and related materials	70
Pipettes and liquid handling equipment and supplies	16
Spectroscopic equipment	10
Test Tubes	26
Viewing and observing instruments and accessories	4
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.